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> VILTROX TC-2.0X Z Teleconverter Instruction Manual for Nikon Z-Mount

VILTROX TC-2.0X Z

VILTROX TC-2.0X Z Teleconverter Instruction Manual

For Nikon Z-Mount Lenses

1. INTRODUCTION

The VILTROX TC-2.0X Z Teleconverter is designed to extend the focal length of compatible Nikon Z-mount telephoto lenses by 2.0 times. This teleconverter allows photographers to achieve greater reach without compromising the optical quality and functionality of their existing lenses. It maintains essential lens features such as autofocus performance and EXIF data transmission. Constructed with a durable, dust and moisture-resistant design, the TC-2.0X Z ensures reliable performance in various shooting conditions.



Image: The VILTROX TC-2.0X Z Teleconverter, showcasing its compact and robust design.

2. SETUP GUIDE

2.1 Package Contents

Verify that all the following items are included in your package:

- VILTROX TC-2.0X Z Teleconverter
- Front Lens Cap
- Rear Lens Cap
- Carrying Pouch
- Warranty Card
- Instruction Manual



Image: The complete package contents, including the teleconverter, caps, pouch, and documentation.

2.2 Attaching the Teleconverter

Follow these steps to correctly attach the VILTROX TC-2.0X Z Teleconverter to your camera and lens:

1. Ensure both your camera and the lens are powered off to prevent damage to the electronic contacts.
2. Remove the rear cap from your compatible NIKKOR Z lens and the front cap from the VILTROX TC-2.0X Z Teleconverter.
3. Align the mounting index (usually a white dot or line) on the teleconverter with the corresponding mounting index on your Nikon Z camera body. Gently attach the teleconverter to the camera body by rotating it clockwise until it clicks securely into place.
4. Remove the rear cap from the teleconverter.
5. Align the mounting index on your NIKKOR Z lens with the mounting index on the teleconverter. Attach the lens to the teleconverter by rotating it clockwise until it clicks securely into place.
6. To detach the lens from the teleconverter, press the lens release button on the teleconverter and rotate the lens counter-clockwise. To detach the teleconverter from the camera, press the lens release button on the camera body and rotate the teleconverter counter-clockwise.



Image: Exploded view illustrating the correct order of assembly: camera body, teleconverter, and lens.



Image: The VILTROX TC-2.0X Z Teleconverter securely mounted between a NIKKOR Z lens and a Nikon Z camera body.

3. OPERATION

3.1 Basic Functionality

The VILTROX TC-2.0X Z Teleconverter effectively doubles the focal length of the attached lens. For instance, a 70-200mm lens will function as a 140-400mm lens when the teleconverter is used. It fully supports the autofocus capabilities of compatible lenses and ensures that EXIF data, including the adjusted focal length and aperture, is accurately transmitted to the camera body.



Image: A photographer using a Nikon Z camera equipped with the VILTROX TC-2.0X Z Teleconverter and a NIKKOR Z lens.

3.2 Compatible Lenses

The VILTROX TC-2.0X Z Teleconverter is specifically designed for use with the following Nikon Z-mount lenses:

- NIKKOR Z 70-200mm f/2.8 VR S
- NIKKOR Z 100-400mm f/4.5-5.6 VR S
- NIKKOR Z 400mm f/4.5 VR S

Please refer to the compatibility table below for detailed information on firmware versions and mode support.



Image: A compatibility table detailing supported NIKKOR Z lenses and their performance with the teleconverter in photo and video modes.

4. CARE AND MAINTENANCE

Proper care and maintenance will ensure the longevity and optimal performance of your VILTROX TC-2.0X Z Teleconverter.

- **Cleaning:** Use a soft, lint-free cloth or a lens blower brush to remove dust from the lens surfaces. For stubborn smudges, use a specialized lens cleaning solution and a microfiber cloth. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Always attach the front and rear caps when the teleconverter is not in use. Store the teleconverter in its protective pouch in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Dust and Moisture Resistance:** The teleconverter features a dust and moisture-resistant design, offering protection against light splashes and dust. However, it is not waterproof. Avoid direct exposure to heavy rain, water immersion, or excessively dusty environments.
- **Handling:** Avoid touching the electronic contacts or lens elements directly. Handle the teleconverter by its barrel.



Image: The teleconverter with its protective front and rear caps, ready for storage.

5. TROUBLESHOOTING

If you encounter issues with your VILTROX TC-2.0X Z Teleconverter, refer to the following common problems and solutions:

- **Teleconverter not recognized by camera:**
 - Ensure the teleconverter is securely attached to both the camera body and the lens, with an audible click.
 - Check for any dust or debris on the electronic contacts of the camera, teleconverter, and lens. Clean them gently with a dry, lint-free cloth if necessary.
 - Power off the camera, detach and reattach the teleconverter and lens, then power the camera back on.
- **Autofocus issues or slow performance:**
 - Confirm that the attached lens is listed as compatible with the TC-2.0X Z Teleconverter.
 - Autofocus performance may be affected in low-light conditions or when shooting subjects with low contrast. Try focusing manually if autofocus struggles.
 - Ensure your camera and lens firmware are up to date.
- **Reduced image sharpness or quality:**
 - While designed for high optical quality, any teleconverter can introduce a slight reduction in sharpness and light transmission. This is normal.
 - Ensure proper focus and stable shooting conditions (e.g., using a tripod).
 - Check for smudges or dust on the lens elements of both the teleconverter and the attached lens.
- **Firmware updates:**
 - The teleconverter is equipped with a USB-C port for firmware updates. If you experience persistent issues or want to ensure optimal compatibility, visit the VILTROX official website for the latest firmware and update instructions.



Image: Close-up of the teleconverter's rear mount, showing the electronic contacts for communication and the USB-C port for firmware updates.

6. PRODUCT SPECIFICATIONS

| Feature | Description |
|------------------------------|---------------------------------------|
| Brand | VILTROX |
| Model Name | TC-2.0X Z |
| Lens Type | Teleconverter |
| Focal Length Extension | 2x Of Base Lens Focal Length |
| Compatible Mount | Nikon Z |
| Optical Design | 9 elements in 5 groups |
| Lens Coating | Nano Crystal Coating |
| Focus Type | Auto Focus |
| Image Stabilization | No (relies on attached lens/camera) |
| Dust and Moisture Resistance | Yes |
| Color | Black |
| Manufacturer | Shenzhen Jueying Technology Co., Ltd. |



Image: Diagram illustrating the optical elements, including those with high refractive index, contributing to the teleconverter's performance.

7. WARRANTY INFORMATION

The VILTROX TC-2.0X Z Teleconverter is covered by a **3-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase and the included warranty card for any claims. For full terms, conditions, and limitations of the warranty, refer to the documentation provided with your product or visit the official VILTROX website.

8. CUSTOMER SUPPORT

For technical assistance, product inquiries, or warranty claims, please contact VILTROX customer support. You can find contact information, FAQs, and additional resources on the official VILTROX website. When contacting support, please have your product model (TC-2.0X Z) and purchase details readily available.